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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,965		07/03/2003	Yoshiaki Hattori	116436	3622
25944	7590	04/24/2006		EXAMINER	
OLIFF & P.O. BOX		GE, PLC	MILLER, DANIEL H		
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
	·			1775	
			DATE MAILED: 04/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	-	Application No.	Applicant(s)			
	OSS: A diam Ourse	10/611,965	HATTORI ET AL.			
	Office Action Summary	Examiner	Art Unit			
· · · · · · · · · · · · · · · · · · ·		Daniel Miller	1775			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on	•				
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.				
3)□						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	ion of Claims					
4)🖂	Claim(s) 1,2,4-7 and 9-11 is/are pending in the	e application.	•			
	4a) Of the above claim(s) 9 and 10 is/are withd	rawn from consideration.				
	5) Claim(s) is/are allowed.					
·	Claim(s) <u>1,2,4-7 and 11</u> is/are rejected.					
·	Claim(s) is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	• ,				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
·	1. Certified copies of the priority documents have been received.					
•	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
•			•			
Attachmer	• •					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>2/03/06</u> .		Patent Application (PTO-152)			

Application/Control Number: 10/611,965

Art Unit: 1775

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4-7, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takagi et al (US 6,165,590) in view of Solmi (U.S. 3,628,989).

Takagi teaches a method for glazing ceramics wherein the first glaze is formed on a relief surface, and a second glaze is applied to non-relief surfaces. The substrate may comprise feldspar (col. 12, lines 60-66). The glaze coating may have a water absorption ratio of 0-10 %. Takagi does not specify the areas of a substrate, which may have varying coatings other than relief versus non-relief areas. It would have been obvious to one or ordinary skill in the art at the time of the invention that the variation of coatings may be applied to any desirable surfaces of an article whether they be plates, tools, top's of articles, or bottoms of articles.

Regarding the second layer being "annular vitrified" the glazes of ceramics are fired which imparts a glassy or vitreous characteristic. Furthermore, the compositions of Takagi are commensurate with the instant claims, as are the methods by which the

article is treated, therefore, the characteristics of the coatings are expected to be similar. However the reference is silent as to the refractory properties of the glazes.

Solmi teaches it is well known in the art to add a percentage of refractory clay to the glaze on the major surface of a tile (column 2 line 55-75), or other ceramic bodies in general (column 5 line 40-43). The higher refractory clay with small grain size (claim 1) causes the glaze to adhere to the surface of the tile more evenly without defect (figures 1-6 and column 4 line 30-60).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use a refractory clay additive on the major surfaces of a ceramic object as is taught by Solmi in order to cause the glaze to adhere to the surface of the tile more evenly without defect.

The glaze of Takagi would be expected to react similarly to biscuit or glost firing absent a showing to the contrary.

Regarding claim 5, the thickness of the glazes may be 0.3-0.4 mm.

Regarding claim 7, Table 1 gives multiple compositions for the glazes that may be used. The first glaze and the second glaze may be different.

Response to Arguments

- 2. Applicant's arguments with respect to claims 1-2, 4-7 and 11 have been considered but are moot in view of the new ground(s) of rejection.
- 3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Miller whose telephone number is (571)272-1534. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571)272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/611,965

Art Unit: 1775

Page 5

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Daniel Miller

JENNIFER C. MCNEIL
SUPERVISORY PATENT EXAMINER